

MasterTop[®] 1110

Water-based epoxy floor and wall coating for concrete and masonry surfaces

DESCRIPTION OF PRODUCT

MasterTop 1110 is a two-component, water dispersible, epoxy resin coating, designed to seal and protect concrete and cementitious floors and walls.

Primary Uses **MasterTop 1110** gives good general protection for concrete surfaces and provides an easily cleaned, non-dusting finish in numerous industrial and commercial applications. The system is free of organic solvents and will not taint foodstuffs.

MasterTop 1110 can be successfully applied to damp concrete surfaces making it particularly suitable for wet process industries, where a dry substrate may be difficult or impossible to obtain.

MasterTop 1110 offers good resistance to a wide range of chemicals and aggressive liquids, but as in all corrosive situations, a full analysis of operating and exposure conditions is required, followed by reference to chemical resistance data, to ensure product suitability.

MasterTop 1110 can also be applied to act as a combined sealer/coating/curing membrane provided that the concrete has hardened sufficiently.

MasterTop 1110 is used extensively in the following application areas as a sealing coat and wearing surface to epoxy toppings and screeds:

- Dairies
- Abattoirs
- Fish and meat processing plants
- Warehousing
- Soft drink and beverage production
- Manufacturing and food processing
- Bakeries
- Wash and changing room walls
- Pharmaceutical factories
- Industrial and commercial kitchens
- Coating / protection for Concrete segments / Culverts in tunnels

ADVANTAGES

- Moisture tolerant
- Economical
- Easy application
- Solvent-free, non-tainting
- Easily cleaned
- Dust-free surface
- Ease of maintenance
- Good bond to dense surfaces

PACKAGING

MasterTop 1110 is supplied in a 5kg unit.

COLOURS

MasterTop 1110 is available in the following colours: light grey; dark grey; dust grey; red; blue beige; green and white

TYPICAL PROPERTIES

Pot Life:	20°C	1 hour
Specific gravity: (varies with colour)		1.35-1.45g/cm ³
Max. service temperature:		60°C
Min. recoat time:		10 hours at 25°C
Max. recoat time:		48 hours at 25°C
D.F.T.:		75-100 microns per coat

HYGIENE

From all available information it has been found that **MasterTop 1110** shows a minimal risk of tainting foodstuffs during and after complete cure has taken place.

APPLICATION PROCEDURE PREPARATION:

MasterTop 1110 can be applied to a clean, dry or damp but not wet, substrate free from dust, dirt, oil, grease and other contaminants. A clean surface will ensure improved adhesion between substrate and coating. The method of surface preparation will be dictated by the size of area to be treated, location and degree of contamination.

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NEW CONSTRUCTION:

Floors to be coated or overlaid should be at least 7 days old unless water-reducing admixtures have been incorporated. (Consult Master Builders Solutions's Technical Services Department for advice). The removal of laitance and contaminants is best achieved by mechanical means, such as vacuum recovery shot blasting.

EXISTING CONCRETE:

All contamination must be removed and a sound clean substrate exposed. Mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum. In areas of deeply penetrating contamination by oils, greases and fats, hot compressed air treatment followed by impregnation with a low viscosity sealer / primer is the recommended treatment.

Prior to application, **MasterTop 1110** should be stored under cover and protected from extremes of temperature which will cause inconsistent workability and cure times of the mixed material. During application in cold conditions, correct conditioning is essential; but application should be halted if the ambient temperature is likely to fall below 10°C. Consideration should be given to the substrate or base slab, as it is likely to be considerably colder than the ambient air temperature.

MIXING:

MasterTop 1110 is a two-component product consisting of base and reactor components. The base component should be mixed before use to redistribute any settlement that may have occurred during storage.

To the pre-mixed base add the complete contents of the reactor container. Using a slow speed drill with a suitable mixing attachment, mix for 1-2

minutes until a uniform streak free consistency is achieved. **MASTERTOP 1110 M** is supplied in preweighed units; at no time should packs be split.

PRIMING:

Substrates that are porous should be primed using **MasterTop 1110** diluted with up to 10% by volume of water per 4kg pack. Coverage will be approximately 5-7m²/kg/coat.

Mixing should be as described above. Application should be by short haired roller or airless spray.

COATING APPLICATION:

Apply 2 coats of **MasterTop 1110** at 5-8m²/kg/coat and allow at least 6-8 hours but no more than 48 hours between coats.

Apply the second coat at right angles to the first. **MasterTop 1110** should be allowed to cure for 48 hours prior to receiving light traffic. Full cure is achieved after 7 days. As with all water-based systems, good ventilation and air movement is required to assist drying, especially in damp conditions.

RESISTANT COATINGS

Where slip resistance is required, **MasterTop SLIP-RESISTANT AGGREGATE NO. 1 (SR NO. 1M)** is broadcast into the wet base coat, to saturation. Leave overnight to dry then remove excess aggregate by sweeping or vacuuming, before applying the topcoat. When a slip-resistant finish is applied in areas that will be wet and/or suffer from chemical spillage, a primer coat must always be applied.

CONSUMPTION:

BASE COAT	6.5-7m ² /kg
AGGREGATE	1.5-2kg/m ²
TOP COAT	5-6m ² /kg

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STORAGE

Coverage will vary according to the nature of the substrate. All calculated usages assume constant thickness on a regular substrate. Failure to achieve the required surface regularity will lead to additional material being used.

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates, the product must be stored in air-conditioned environment.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage and disposal advice, consult Master Builders Solutions's Technical Services Department.

SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken, during use and storage, to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product has fully cured or dried). Treat splashes to skin and eyes immediately. If accidentally ingested, seek medical attention. Re-seal containers after use. For further information, refer to the material safety data sheet.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information, contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world-wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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